

PHACT™ CA8470P-S2

PHACT CA8470P-S2 is an environment-friendly semi-crystalline bio polymer which has excellent biodegradability. It is a compounded polymer based on Polylactic acid and Amorphous polyhydroxyalkanoate. PHACT CA8470P-S2 is appropriate for extrusion process to produce the straw applications.

PROPERTIES OF PHACT CA8470P-S2

Properties	Units	ASTM No	CA8470P-S2
Forms	-		Pellet
Specific Gravity	-	D792	1.23
Melting Point ¹⁾	°C	D3418	148.6
Glass Transition Temperature ¹⁾	°C	D3418	52
Melt Flow Rate (190°C, 2.16Kg)	g/10 min	D1238	6
Tensile Strength at Break ²⁾	MD		44
	TD		29
Elongation at Break ²⁾	MD	D882	340
	TD		350

1) Differential Scanning Calorimeter (DSC), peak of endotherm. Heating rate 10 °C/min.

2) Film specimens conforms to ASTM D882. Crosshead speed 200 mm/min for mechanical properties.

PROCESSING CONDITION FOR EXTRUSION

Dry Temperature ¹⁾	60 °C X 8 hrs	Feed Throat	20 ~ 40 °C
Feed Temperature	100 ~ 120 °C	Compression section	160 ~ 165 °C
Melt Temperature	150 ~ 160 °C	Nozzle	160 ~ 165 °C

1) It is preferable to dry with air below -40 °C dew point.

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